

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): An information processing system comprising:
an information processing apparatus which is used to operate a plurality of applications to request data input/output to/from a storage; and

a management host which manages said storage,

wherein said storage comprises at least one port and at least one array group including a plurality of disk units;

wherein said information processing apparatus accesses, via said at least one port, a virtual area provided by said at least one array group;

wherein said storage and said information processing apparatus constitute an access process section for processing an access request from an application;

wherein said access process section includes said at least one port and said at least one array group;

wherein said information processing apparatus comprises an access monitoring section which monitors an access request from said application and obtains information about said access request for each of said applications; and

wherein said management host comprises:

an acceptance section which accepts specification of a new application;

a current load calculation section which calculates current amount of data accessed from said application to said storage for each of said applications based on information obtained by said access monitoring section;

an estimated load calculation section which calculates each of an estimated amount of data accessed from said application to said storage in said port and an estimated amount of data in said array group, in case of addition of said new application based on current amount of data calculated by said current load calculation section and based on information obtained by said access monitoring section; and

a load data output section which outputs each of the estimated amount of data in said port and the estimated amount of data in said array group calculated by said estimated load calculation section.

2-3. (canceled).

4. (currently amended): The information processing system according to claim ~~31~~,

wherein each of said port and said array group includes a plurality of configurations having similar functions;

wherein said configurations for said at least one port and said at least one array group comprise a configuration information storage section which stores information about available combinations capable of processing said access request; and

wherein said estimated load calculation section calculates estimated amount of data with respect to said available combinations of said configurations for said at least one port and said at least one array group.

5. (currently amended): An information processing system comprising:
a storage which stores a database and comprises at least one port and at least one array group including a plurality of disk units;

a plurality of information processing apparatuses which are used to operate an application requesting data input/output to/from said storage and access, via said at least one port, a virtual area provided by said at least one array group; and

a management host which manages said storage,

wherein each of said information processing apparatuses comprises:

a database management system which processes an access request from said application to said database and includes said at least one port and said at least one array group;

an access monitoring section which monitors an access request sent from said application to said database management system and obtains information about said access request; and

an access information output section which collects information about said access request and adds up said information correspondingly to said application, and

wherein said management host comprises:

an acceptance section which accepts specification of a new application;

a current load calculation section which calculates current ~~load~~ amount of data accessed from said application to said storage for each of said applications based on information obtained by said access monitoring section;

an estimated load calculation section which calculates each of an estimated

amount of data accessed from said application to said storage in said port and an estimated amount of data in said array group, calculated by said current load calculation section and based on information obtained by said access monitoring section;

a load data output section which outputs each of the estimated amount of data in said port and the estimated amount of data in said array group calculated by said estimated load calculation section; and

a configuration setup section which sets up a change in configuration of said storage based on the estimated amount of data calculated by said estimated load calculation section.

6. (currently amended): An information processing system comprising:

a storage which stores a file and comprises at least one port and at least one array group including a plurality of disk units;

a plurality of information processing apparatuses which are used to operate an application requesting input/output of data stored in a file to/from said storage and access, via said at least one port, a virtual area provided by said at least one array group; and

a management host which manages said storage,

wherein each of said information processing apparatuses comprises:

a file system which processes an access request from said application to said file and includes said at least one port and said at least one array group;

an access monitoring section which monitors an access request sent from said file system to said storage and obtains information about said access request;

and

an access information output section which collects information about said access request and adds up said information correspondingly to said application,

wherein said management host comprises:

an acceptance section which accepts specification of a new application;

a current load calculation section which calculates current amount of data for each of said applications based on information obtained by said access monitoring section;

an estimated load calculation section which calculates each of an estimated amount of data accessed from said application to said storage in said port and an estimated amount of data in said array group, in case of addition of said new application based on current amount of data calculated by said current load calculation section and based on information obtained by said access monitoring section;

a load data output section which outputs the estimated amount of data in said port and the estimated amount of data in said array group calculated by said estimated load calculation section; and

a configuration setup section which sets up a change in configuration of said storage based on estimated amount of data calculated by said estimated load calculation section.

7. (currently amended): A control method of an information processing system, the system comprising an information processing apparatus which is used to operate a plurality of applications to request data input/output to/from a storage

and a management host which manages said storage,

wherein said storage comprises at least one port and at least one array group including a plurality of disk units,

wherein said information processing apparatus accesses, via said at least one port, a virtual area provided by said at least one array group,

said method comprising the steps of:

monitoring an access request from each of said applications;

obtaining information about said access request for each of said applications;

calculating current amount of data accessed from each of said applications to said storage for each of said applications, in case of addition of said new application based on information about said obtained access request;

accepting specification of a new application;

calculating estimated amount of data accessed from each of said applications to said storage for each said applications, in case of addition of said new application based on information about said obtained access request;

calculating each of an estimated amount of data in said port and an estimated amount of data in said array group in case of addition of said new application based on said calculated current data and information about said obtained access request; and

outputting said calculated each of the estimated amount of data in said port and the estimated amount of data in array group.

8. (currently amended): The control method according to claim 7,
~~wherein said storage comprises at least one port and at least one array~~
~~group including a plurality of disk units;~~
~~wherein said information processing apparatus accesses via said port, a~~
~~virtual area provided by said at least one array group;~~
wherein said estimated amount of data is calculated in case of addition of a
new application for each of said at least one port and said at least one array group
to process in series said access request and for available combinations of
configurations of said at least one port and said at least one array group.

9. (currently amended): A program for calculating load data in an
information processing system, the system comprising an information processing
apparatus which is used to operate a plurality of applications to request data
input/output to/from a storage and a management host which manages said
storage,

wherein said storage comprises at least one port and at least one array
group including a plurality of disk units,

wherein said information processing apparatus accesses, via said at least
one port, a virtual area provided by said at least one array group,

wherein said program is tangibly embodied on a machine-readable storage
device, the program comprising:

means for monitoring an access request from said application and obtaining
information about said access request for each of said applications;

means for calculating current amount of data accessed from said

application to said storage for each of said applications based on information about said obtained access request;

means for accepting specification of a new application;

means for calculating an estimated amount of data accessed from said application to said storage for each of said applications, in case of addition of said new application based on information about said obtained access request;

means for calculating each of an estimated amount of data in said port and an estimated amount of data in said array group in case of addition of said new application based on said calculated current amount of data and information about said obtained access request; and

means for outputting said calculated estimated amount of data in said port and said estimated amount of data in said array group.

10. (currently amended): The program according to claim 9,

~~wherein said storage comprises at least one port and at least one array group including a plurality of disk units;~~

~~wherein said information processing apparatus accesses, via said at least one port, a virtual area provided by said at least one array group;~~

wherein said means for calculating estimated amount of data calculates the estimated amount of data in case of addition of a new application for each of said at least one port and said at least one array group to process in series said access request and for available combinations of configurations of said at least one port and said at least one array group.